

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1307957

Luminaire Tested: LDSQA3D09R309027DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307957  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R309027DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

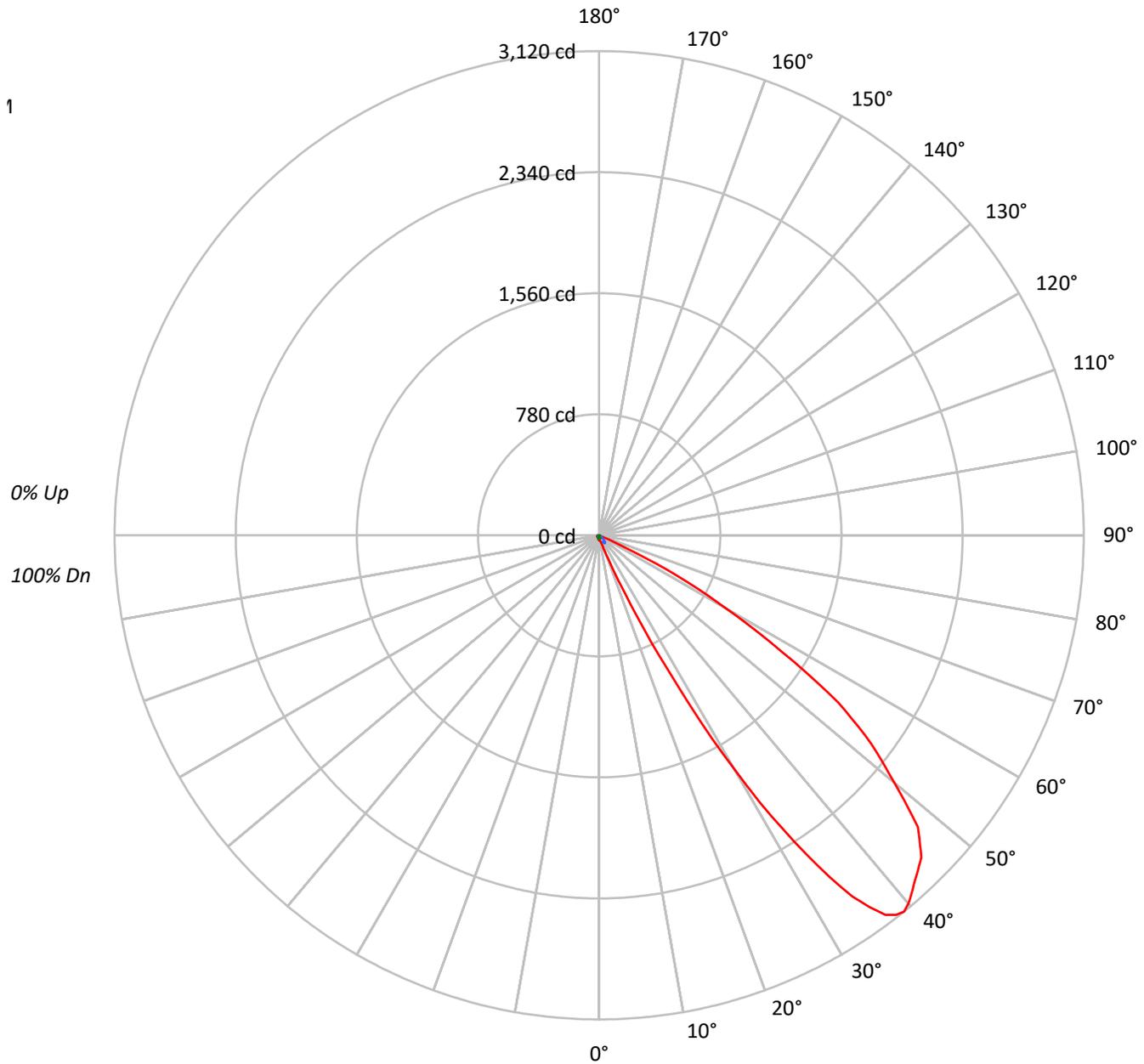
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 811.0 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    | 20 |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |    |    | 10 | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |   |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |    |   |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |    |   |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |    |   |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |    |   |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 42  |    |    |    |   |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |    |   |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |    |   |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 32  | 26  | 37  | 31  | 26  | 24  |    |    |    |   |
| 9   | 52  | 37  | 29  | 23  | 50  | 37  | 28  | 23  | 36  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  |    |    |    |   |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 5408   | 5408  | 5408 | 5408 | 5408  |
| 5°  | 5791   | 5670  | 5307 | 4841 | 4720  |
| 10° | 6331   | 5614  | 4652 | 4180 | 4057  |
| 15° | 9254   | 5599  | 3905 | 3530 | 3655  |
| 20° | 23294  | 6140  | 3006 | 3006 | 3372  |
| 25° | 108144 | 7658  | 2337 | 2717 | 3116  |
| 30° | 344256 | 10600 | 1770 | 2585 | 3122  |
| 35° | 597348 | 12930 | 1430 | 2439 | 3154  |
| 40° | 696674 | 12905 | 1079 | 2451 | 3215  |
| 45° | 714482 | 9158  | 1169 | 2655 | 3483  |
| 50° | 664415 | 5117  | 911  | 2733 | 4019  |
| 55° | 564701 | 2672  | 1021 | 3063 | 4504  |
| 60° | 326121 | 689   | 1171 | 3307 | 4926  |
| 65° | 66547  | 0     | 1386 | 3912 | 5583  |
| 70° | 1007   | 352   | 1712 | 4482 | 6546  |
| 75° | 932    | 466   | 1797 | 4525 | 7719  |
| 80° | 694    | 694   | 2678 | 5455 | 8827  |
| 85° | 0      | 1383  | 5335 | 5335 | 10868 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 714482 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.8    | 0.4       |
| 10°-20°   | 8.2    | 1.0       |
| 20°-30°   | 46.8   | 5.8       |
| 30°-40°   | 218.4  | 26.9      |
| 40°-50°   | 308.9  | 38.1      |
| 50°-60°   | 190.0  | 23.4      |
| 60°-70°   | 28.9   | 3.6       |
| 70°-80°   | 4.6    | 0.6       |
| 80°-90°   | 2.3    | 0.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 57.8   | 7.1       |
| 0°-40°    | 276.2  | 34.1      |
| 0°-60°    | 775.2  | 95.6      |
| 0°-90°    | 811.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 811.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 31   | 31  | 31  | 31   | 31   |      |
| 5°  | 34   | 33  | 31  | 28   | 27   | 3    |
| 15° | 52   | 31  | 22  | 20   | 20   | 18   |
| 25° | 569  | 40  | 12  | 14   | 16   | 350  |
| 35° | 2841 | 62  | 7   | 12   | 15   | 1705 |
| 45° | 2934 | 38  | 5   | 11   | 14   | 2224 |
| 55° | 1881 | 9   | 3   | 10   | 15   | 1600 |
| 65° | 163  | 0   | 3   | 10   | 14   | 295  |
| 75° | 1    | 1   | 3   | 7    | 12   | 1    |
| 85° | 0    | 1   | 3   | 3    | 6    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°  | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|------|-------|------|--------|------|
| 0°    | 31.4   | 31.4   | 31.4   | 31.4   | 31.4   | 31.4   | 31.4 | 31.4  | 31.4 | 31.4   | 31.4 |
| 2.5°  | 32.1   | 32.1   | 32.8   | 32.8   | 32.1   | 32.8   | 32.8 | 32.8  | 31.4 | 30.7   | 29.4 |
| 5°    | 33.5   | 33.5   | 33.5   | 34.2   | 33.5   | 33.5   | 32.8 | 32.1  | 30.7 | 28.7   | 28.0 |
| 7.5°  | 34.8   | 34.8   | 34.2   | 34.8   | 34.2   | 34.2   | 32.8 | 31.4  | 29.4 | 27.3   | 26.0 |
| 10°   | 36.2   | 36.2   | 35.5   | 35.5   | 34.8   | 34.8   | 32.1 | 30.1  | 26.6 | 24.6   | 23.9 |
| 12.5° | 40.3   | 40.3   | 39.6   | 38.9   | 37.6   | 36.9   | 31.4 | 28.0  | 23.9 | 21.9   | 21.2 |
| 15°   | 51.9   | 51.2   | 49.9   | 47.8   | 44.4   | 43.7   | 31.4 | 26.0  | 21.9 | 19.8   | 19.8 |
| 17.5° | 71.0   | 70.4   | 68.3   | 62.9   | 56.7   | 54.7   | 31.4 | 23.2  | 19.1 | 17.8   | 17.8 |
| 20°   | 127.1  | 121.6  | 111.4  | 97.7   | 83.3   | 75.8   | 33.5 | 20.5  | 16.4 | 15.7   | 16.4 |
| 21°   | 166.0  | 160.5  | 147.6  | 125.0  | 99.7   | 91.5   | 34.8 | 19.8  | 15.7 | 15.0   | 16.4 |
| 22°   | 226.1  | 220.0  | 193.3  | 162.6  | 126.4  | 112.0  | 35.5 | 18.4  | 14.3 | 14.3   | 15.7 |
| 23°   | 315.6  | 305.4  | 260.3  | 211.1  | 157.8  | 137.3  | 36.9 | 17.8  | 13.7 | 14.3   | 15.0 |
| 24°   | 413.3  | 404.4  | 353.2  | 279.4  | 201.5  | 172.2  | 38.3 | 17.1  | 13.0 | 13.0   | 14.3 |
| 25°   | 569.1  | 558.8  | 468.0  | 352.5  | 255.5  | 207.0  | 40.3 | 15.7  | 12.3 | 12.3   | 14.3 |
| 26°   | 770.6  | 723.5  | 602.5  | 454.3  | 314.9  | 259.6  | 42.4 | 15.0  | 11.6 | 12.3   | 13.7 |
| 27°   | 961.9  | 922.9  | 787.0  | 582.7  | 389.4  | 319.0  | 45.1 | 14.3  | 10.9 | 11.6   | 13.7 |
| 28°   | 1213.3 | 1158.6 | 987.2  | 737.1  | 490.5  | 386.0  | 47.8 | 13.7  | 10.2 | 11.6   | 13.0 |
| 29°   | 1494.7 | 1418.2 | 1211.2 | 910.6  | 604.6  | 461.1  | 50.6 | 13.0  | 9.6  | 10.9   | 13.0 |
| 30°   | 1731.1 | 1659.4 | 1452.4 | 1116.3 | 735.8  | 560.2  | 53.3 | 12.3  | 8.9  | 10.9   | 13.0 |
| 31°   | 2008.5 | 1899.8 | 1649.1 | 1290.5 | 848.5  | 659.2  | 56.0 | 10.9  | 8.2  | 10.2   | 12.3 |
| 32°   | 2233.2 | 2157.4 | 1891.0 | 1487.2 | 996.7  | 768.5  | 58.1 | 10.2  | 8.2  | 10.2   | 12.3 |
| 33°   | 2450.5 | 2348.7 | 2091.1 | 1675.8 | 1130.6 | 880.6  | 60.1 | 9.6   | 7.5  | 9.6    | 12.3 |
| 34°   | 2658.1 | 2564.6 | 2280.4 | 1828.1 | 1257.0 | 987.2  | 61.5 | 8.2   | 7.5  | 9.6    | 11.6 |
| 35°   | 2841.2 | 2732.6 | 2447.1 | 1977.0 | 1386.8 | 1084.2 | 61.5 | 7.5   | 6.8  | 8.9    | 11.6 |
| 36°   | 2960.1 | 2882.2 | 2591.9 | 2123.9 | 1504.3 | 1176.4 | 61.5 | 6.8   | 6.1  | 8.9    | 10.9 |
| 37°   | 3061.9 | 2971.0 | 2708.0 | 2236.6 | 1591.1 | 1250.2 | 61.5 | 6.1   | 6.1  | 8.9    | 10.9 |
| 38°   | 3103.6 | 3025.7 | 2787.9 | 2336.4 | 1672.4 | 1325.3 | 60.8 | 5.5   | 5.5  | 8.2    | 10.9 |
| 39°   | 3120.0 | 3050.3 | 2848.1 | 2408.1 | 1732.5 | 1375.9 | 59.4 | 4.8   | 5.5  | 8.2    | 10.9 |
| 40°   | 3098.8 | 3046.2 | 2878.8 | 2454.6 | 1780.3 | 1412.8 | 57.4 | 4.1   | 4.8  | 8.2    | 10.9 |
| 42.5° | 3011.3 | 2976.5 | 2872.0 | 2501.0 | 1821.3 | 1440.1 | 49.9 | 2.7   | 4.8  | 7.5    | 10.9 |
| 45°   | 2933.5 | 2895.2 | 2803.0 | 2452.5 | 1768.0 | 1386.1 | 37.6 | 1.4   | 4.8  | 7.5    | 10.9 |
| 47.5° | 2782.5 | 2758.6 | 2686.2 | 2328.9 | 1651.2 | 1264.5 | 26.6 | 0.7   | 4.1  | 6.8    | 10.2 |
| 50°   | 2479.8 | 2457.3 | 2361.7 | 2022.1 | 1420.3 | 1069.1 | 19.1 | 0.7   | 3.4  | 6.8    | 10.2 |
| 52.5° | 2208.6 | 2184.7 | 2047.4 | 1681.2 | 1091.0 | 783.6  | 12.3 | 0.7   | 3.4  | 6.8    | 10.2 |
| 55°   | 1880.7 | 1839.0 | 1658.7 | 1276.1 | 773.3  | 525.3  | 8.9  | 0.7   | 3.4  | 6.1    | 10.2 |
| 57.5° | 1392.3 | 1331.5 | 1170.2 | 870.3  | 445.4  | 284.9  | 4.8  | 0.7   | 3.4  | 6.1    | 10.2 |
| 60°   | 946.8  | 910.6  | 732.3  | 459.1  | 189.9  | 120.2  | 2.0  | 0.7   | 3.4  | 6.1    | 9.6  |
| 62.5° | 573.8  | 528.1  | 368.2  | 195.4  | 82.0   | 54.7   | 0.0  | 1.4   | 3.4  | 6.1    | 9.6  |
| 65°   | 163.3  | 144.8  | 96.3   | 44.4   | 23.2   | 17.8   | 0.0  | 1.4   | 3.4  | 6.1    | 9.6  |
| 67.5° | 5.5    | 5.5    | 5.5    | 4.8    | 3.4    | 3.4    | 0.7  | 1.4   | 3.4  | 6.1    | 8.9  |
| 70°   | 2.0    | 2.0    | 2.0    | 1.4    | 1.4    | 0.7    | 0.7  | 1.4   | 3.4  | 5.5    | 8.9  |
| 72.5° | 1.4    | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7  | 1.4   | 2.7  | 4.8    | 8.2  |
| 75°   | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.7  | 2.0   | 2.7  | 4.8    | 6.8  |
| 77.5° | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.7  | 2.0   | 2.7  | 4.1    | 6.8  |
| 80°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7  | 2.0   | 2.7  | 4.1    | 5.5  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0   | 0.7 | 2.0   | 2.7 | 2.7    | 4.1  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.7 | 2.0   | 2.7 | 2.0    | 2.7  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.7 | 2.0   | 2.0 | 2.0    | 1.4  |
| 90°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 31.4   | 31.4 |
| 2.5°  | 29.4   | 29.4 |
| 5°    | 27.3   | 27.3 |
| 7.5°  | 25.3   | 25.3 |
| 10°   | 23.2   | 23.2 |
| 12.5° | 21.9   | 21.9 |
| 15°   | 19.8   | 20.5 |
| 17.5° | 18.4   | 19.1 |
| 20°   | 17.8   | 18.4 |
| 21°   | 17.8   | 18.4 |
| 22°   | 17.1   | 17.8 |
| 23°   | 17.1   | 17.8 |
| 24°   | 16.4   | 17.1 |
| 25°   | 15.7   | 16.4 |
| 26°   | 15.7   | 16.4 |
| 27°   | 15.7   | 16.4 |
| 28°   | 15.0   | 16.4 |
| 29°   | 15.0   | 15.7 |
| 30°   | 15.0   | 15.7 |
| 31°   | 14.3   | 15.7 |
| 32°   | 14.3   | 15.7 |
| 33°   | 14.3   | 15.0 |
| 34°   | 13.7   | 15.0 |
| 35°   | 13.7   | 15.0 |
| 36°   | 13.7   | 15.0 |
| 37°   | 13.7   | 14.3 |
| 38°   | 13.7   | 15.0 |
| 39°   | 13.7   | 14.3 |
| 40°   | 13.7   | 14.3 |
| 42.5° | 13.7   | 14.3 |
| 45°   | 13.7   | 14.3 |
| 47.5° | 13.7   | 15.0 |
| 50°   | 13.7   | 15.0 |
| 52.5° | 13.7   | 15.0 |
| 55°   | 13.7   | 15.0 |
| 57.5° | 13.7   | 14.3 |
| 60°   | 13.7   | 14.3 |
| 62.5° | 13.0   | 14.3 |
| 65°   | 13.0   | 13.7 |
| 67.5° | 13.0   | 13.7 |
| 70°   | 12.3   | 13.0 |
| 72.5° | 11.6   | 12.3 |
| 75°   | 10.2   | 11.6 |
| 77.5° | 9.6    | 10.2 |
| 80°   | 8.2    | 8.9  |



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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 6.8    | 6.8  |
| 85°   | 4.8    | 5.5  |
| 87.5° | 2.7    | 2.7  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)